AMENDMENTS TO THE CLAIMS

Please amend the claims as follows. Claims 1-21 in the Application as filed January 16, 2004 were cancelled by an accompanying Preliminary Amendment, which also added new claims 22 – 57. Claims 22 – 57 were rejected in an Office action mailed February 23, 2005. No claims were amended in a response that was filed May 25, 2005 to the Office action mailed February 23, 2005. Claims 22-57 were rejected in a final Office action mailed June 23, 2005. A Response was filed September 21, 2005, and an Advisory Action that maintained rejection of all claims in the Application was mailed October 27, 2005. New claims 58-72 are added in this Request for Continued Examination. Claims 22, 39 and 58 are independent claims. Claims 23-38, 40-57 and 59-72 depend from independent claims 22, 39 and 58, respectively.

Listing of Claims:

Claims 1-21 (Canceled).

22. (Currently Amended) A communication network supporting the exchange of voice and data, the network comprising:

at least one portable terminal having a wireless transceiver adapted for communication using a packet protocol;

the at least one portable terminal adapted for converting sound into digital voice packets for transmission via the wireless transceiver, and for receiving digital voice packets via the wireless transceiver, the contents of the digital voice packet for conversion into sound;

the at least one portable terminal adapted for capturing digital data into data packets for transmission via the wireless transceiver, and for receiving data packets via the wireless transceiver, the contents of the data packets used for reproducing digital data;

at least one access device having a wireless transceiver for exchanging packets with the at least one portable terminal, the at least one access device comprising a network interface for exchanging information via a wired network;~~ and~~

the at least one access device selectively transferring to its wireless transceiver for transmission at least a portion of the information received from its network interface, and selectively transferring to its network interface for transmission at least a portion of the information received by its wireless transceiver; and

wherein digital voice packets wirelessly exchanged by the at least one portable terminal comprise destination information used for routing the digital voice packets through the communication network.

23. (Previously Presented) The communication network of claim 22 wherein the wireless transceivers communicate at a frequency of approximately 2.4 gigahertz.

24. (Previously Presented) The communication network of claim 22 wherein the wireless transceivers communicate using a frequency hopping spread spectrum technique.

25. (Previously Presented) The communication network of claim 22 wherein the wireless transceivers communicate using a direct sequence spread spectrum technique.

26. (Previously Presented) The communication network of claim 22 wherein the packet protocol comprises an Internet protocol (IP).

27. (Previously Presented) The communication network of claim 26 wherein the Internet protocol is the transmission control protocol (TCP)/Internet protocol (IP) protocol.

28. (Previously Presented) The communication network of claim 22 wherein the packets exchanged by the at least one portable terminal comprise digital voice packets and data packets.

29. (Previously Presented) The communication network of claim 22 wherein packets are transported wirelessly without regard to content.

30. (Previously Presented) The communication network of claim 22 wherein the wired network comprises a packet network.

31. (Previously Presented) The communication network of claim 30 wherein the packet network uses an Internet protocol (IP).

32. (Previously Presented) The communication network of claim 30 wherein the Internet protocol is the transmission control protocol (TCP)/Internet protocol (IP) protocol.

33. (Previously Presented) The communication network of claim 22 wherein the wired network comprises an Ethernet compliant network.

34. (Previously Presented) The communication network of claim 22 wherein the wired network comprises a conventional switched telephone network.

35. (Previously Presented) The communication network of claim 33 wherein the network interface communicates via the wired network in digital form.

36. (Previously Presented) The communication network of claim 22 wherein the communication network supports the establishment of voice calls by the at least one portable terminal via the wired network.

37. (Previously Presented) The communication network of claim 22 wherein the communication network supports the receipt of voice calls by the at least one portable terminal from the wired network.

38. (Previously Presented) The communication network of claim 22 wherein the communication network supports the concurrent exchange of data unrelated to a voice call.

39. (Currently Amended) A communication network supporting the exchange of voice and data, the network comprising:

at least one portable terminal having a wireless transceiver adapted for communication using a packet protocol;

the at least one portable terminal arranged to exchange via the wireless transceiver packets comprising digital representations of sound;

the at least one portable terminal adapted to exchange via the wireless transceiver packets comprising digital data;

at least one access device having a wireless transceiver for exchanging packets with the at least one portable terminal and comprising at least one network interface for exchanging information via a wired network; ~~and~~

the at least one access device adapting packets from its wireless transceiver for transmission via a designated one of the at least one network interface, and for adapting information from the designated one of the at least one network interface for transmission as packets via its wireless transceiver; and

wherein the packets comprising digital representations of sound also comprise destination information used for routing the packets through the communication network.

40. (Previously Presented) The communication network of claim 39 wherein the wireless transceivers communicate at a frequency of approximately 2.4 gigahertz.

41. (Previously Presented) The communication network of claim 39 wherein the wireless transceivers communicate using a frequency hopping spread spectrum technique.

42. (Previously Presented) The communication network of claim 39 wherein the wireless transceivers communicate using a direct sequence spread spectrum technique.

43. (Previously Presented) The communication network of claim 39 wherein the packet protocol comprises an Internet protocol (IP).

44. (Previously Presented) The communication network of claim 43 wherein the Internet protocol is the transmission control protocol (TCP)/Internet protocol (IP) protocol.

45. (Previously Presented) The communication network of claim 39 wherein the packets exchanged by the at least one portable terminal comprise digital voice packets and data packets.

46. (Previously Presented) The communication network of claim 39 wherein packets are transported wirelessly without regard to content.

47. (Previously Presented) The communication network of claim 39 wherein the wired network comprises a packet network.

48. (Previously Presented) The communication network of claim 47 wherein the packet network uses an Internet protocol (IP).

49. (Previously Presented) The communication network of claim 47 wherein the Internet protocol is the transmission control protocol (TCP)/Internet protocol (IP) protocol.

50. (Previously Presented) The communication network of claim 39 wherein the wired network comprises an Ethernet compliant network.

51. (Previously Presented) The communication network of claim 39 wherein the wired network comprises a conventional switched telephone network.

52. (Previously Presented) The communication network of claim 51 wherein the network interface communicates via the wired network using digital information.

53. (Previously Presented) The communication network of claim 39 wherein the communication network supports the establishment of voice calls by the at least one portable terminal via the wired network.

54. (Previously Presented) The communication network of claim 39 wherein the communication network supports the receipt of voice calls by the at least one portable terminal from the wired network.

55. (Previously Presented) The communication network of claim 39 wherein the communication network supports the concurrent exchange of data unrelated to a voice call.

56. (Previously Presented) The communication network of claim 39 wherein the designated one of the at least one network interface is designated based upon information received via the wireless transceiver.

57. (Previously Presented) The communication network of claim 39 wherein the designated one of the at least one network interface is designated based upon information received via the network interface.

58. (New) A communication device supporting the exchange of voice and data, the device comprising:

wireless communication circuitry for communicating using a packet protocol;

circuitry for converting an electrical signal representative of sound into digital voice packets for transmission via the wireless communication circuitry, and for receiving digital voice packets via the wireless communication circuitry, the contents of the received digital voice packets for conversion into sound;

circuitry for capturing digital data into data packets for transmission via the wireless communication circuitry, and for receiving data packets via the wireless communication circuitry, the contents of the received data packets used for reproducing digital data;

wherein the wireless communication circuitry exchanges packets with at least one access device of a communication network; and

wherein digital voice packets wirelessly exchanged by the communication device and the at least one access device comprise destination information used for routing the digital voice packets through the communication network.

59. (New) The device of claim 58 wherein the packet protocol comprises an Internet protocol (IP).

60. (New) The device of claim 59 wherein the Internet protocol is the transmission control protocol (TCP)/Internet protocol (IP) protocol.

61. (New) The device of claim 58 wherein the at least one access device comprises a network interface circuit that communicates using a packet protocol.

62. (New) The device of claim 61 wherein the packet protocol is the transmission control protocol (TCP)/Internet protocol (IP) protocol.

63. (New) The device of claim 58 wherein the at least one access device comprises a network interface circuit that communicates using a wired network.

64. (New) The device of claim 63 wherein the wired network comprises a public switched telephone network.

65. (New) The device of claim 64 wherein the network interface circuit is compatible with a conventional analog loop connection.

66. (New) The device of claim 58 wherein the contents of each digital voice packet transmitted wirelessly by a communication device of a first party is received in a digital voice packet by a destination party.

67. (New) The device of claim 58 wherein the communication network comprises a plurality of access devices, and wherein routing of digital voice packets between access devices is based upon a cost.

68. (New) The device of claim 58, wherein a user is prompted to select a routing alternative using routing information received by the communication device.

69. (New) The device of claim 58, wherein the wireless communication circuitry comprises at least one wireless receiver and at least one wireless transmitter.

70. (New) The device of claim 69, wherein the at least one wireless receiver and the at least one wireless transmitter comprises a single transceiver.

71. (New) The device of claim 58, wherein the wireless communication circuitry comprises at least one transceiver.

72. (New) The device of claim 71, wherein the at least one transceiver comprises a single transceiver.